

## Tetra Tech, Inc.

4213 State Street, Suite 100 Santa Barbara, CA 93110-2847 VOICE (805) 681-3100 FAX (805) 681-3108 Project: Vandenberg Air Force Base

Log of Well No. 5-MW-7

Location: Approximately 900 ft southeast of SLC-3E launch gantry, adjacent to 5-MW-3.

		7.			
Date Started: 5/3/99	Completed: 5/6/99	2" PVC Blank Casing:	from	0 ft bgs to	60 ft bgs
Logged By: W. Drake	Checked By: K. McNamara, R.G.	0.01" Screening Casing:	from	60 ft bgs to	80 ft bgs
Drilled By: J. Surigao, Val	ley Well Drilling Km #6678	Bentonite/Cement Grout:	from	0 ft bgs to	52.5 ft bgs
Drilling Equipment: B-61 N	Nobile Drill HSA	Bentonite Transitional Seal:	from	52.5 ft bgs to	56 ft bgs
Sampling Equipment: 2-inch	& 2.5 inch I.D. Split Spoon	2/12 Sand Filter Pack:	from	56 ft bgs to	82 ft bgs
GS Elev.: 292.8 ft ab	ove MSL TD: 82 ft bgs	TOC Elev.: 295.49 ft abov	ve MSL		

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Constru	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	silty sand, dark brown (10YR 3/3), fine to medium grained, well graded, subangular to subrounded, loose, dry, few coarse subangular sand, trace roots, fill/alluvium.  medium dense, slightly moist, no coarse sand.		SM			9 9 12	100		Start drilling 0915. Sample V5MW7-0 submitted for laboratory analyses. Sample V5MW7-2 submitted for laboratory analyses.
5	clayey sand, light yellowish brown (10YR 6/4), fine grained, moderately graded, subangular to subrounded, medium dense, dry, some fines, few fine subangular gravel, alluvium.  silty sand, very dark grayish brown (10YR 3/2), fine to medium grained, moderately graded, loose, slightly		SC SM			5 6 7 3 4 5	75 50	0/0	Sample V5MW7-5 submitted for laboratory analyses.
	moist, little fines, alluvium.  very moist.					4 6 2 5 8	75 75	0 /0	Commis VENGAIZ 10
10	- wet.		<b>Y</b> _				5		Sample V5MW7-10 submitted for laboratory analyses.  Upper groundwater
15	dark yellowish brown (10YR 3/6).		_				80		zone (perched) encountered at 12.5 ft.
							60		NBortogsWMWells\RL, 26\Site 5\\ 5\-MW-7 p1 of 4 1/12\00 ds
20							100	0/0	Bortogs\MWells\RL

64.6 ft bgs 👱 Groundwater depth during drilling (lower zone)

TC Number: A234-06

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launch gantry, adjacent to 5-MW-3.

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
20	-		SM				30		
25	-   				$\stackrel{\text{\c }}{\rightarrow}$		60	0/0	
	-				$\bigvee$		60		
30	clayey sand, brown (10YR 5/3), coarse to fine grained, well graded, subangular to subrounded, slightly moist,		SC				60	0/0	
4	some fines, few coarse grained sand, low plasticity.  clayey sand and silty sand, brown (10YR 5/3), coarse to fine grained, well graded, subangular to subrounded, no plasticity, slightly moist, some fines.		SC/ SM		$\bigvee$		40		
35	clayey sand, brown (10YR 5/3), medium to fine grained, moderately graded, subangular to subrounded, slightly moist, some fines, low plasticity, slight (trace) iron staining, interlayered with few silt layers, light gray		SC				40	0/0	TD of 6-inch auger at 34 ft. Reamed to 37 ft with 14-inch auger. End drilling with 14-inch auger at
	(10YR 7/2).								1120 on 5/3/99. Set 10-inch diamete schedule 80 conductor casing at 32 ft using cement
40	silt, yellowish brown (10YR 5/4), medium dense to dense, slightly moist, no plasticity, trace medium grained sand.		ML			5 7 30 30 30	100		grout. Start drilling 0910 on 5/6/99 with 8-inch auger.
-									
45						7 8 11 15	100	0/6.8	



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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Substitution	Blow Counts per 6"	Percent Recovery	diwg/qub REMARKS
45	medium dense, slight plasticity, minor clay, no sand, few iron staining.		ML ¥		10 20 30		
50	light olive brown (2.5YR 5/3), dense to very dense.				30 50	50	0/12.4
55	grained, moderately graded, subrounded, very dense, moist, little fines, few iron staining.		SM		10 10 15 30 30	40	0/8.3
60	trace coarse grained subangular sand.				9 20 26 30 34	100	0/2.4
65	little iron staining, trace subangular fine gravel.		¥.		13 29 30 32 40	80	0/ 16.6
70	silt, light olive brown (2.5YR 5/4), dense, moist, minor clay, slight plasticity.		ML		13 23 27 23 45	20	Sample V5MW7-70 submitted for laboratory analyses.  Page 3 of 4
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_		_			launch ga	ntry	, adjace	ent to	5-M	W-3.
Depth (ft bgs)		Material	Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
75				ML			15 25 35	100	0/0 0/ 19.6	
80							25 40 40	100		TD of 8-inch auger at 82 ft. Construct 2-inch well from 82 ft.
85										End drilling 1230, 5/6/99.
90										
										Pogo 4 of 4
95   T	CC Number: A234-06	TETR		ECH	DIG.					Page 4 of 4